EXHIBIT 1

Tables 1-4 from U.S. Appl. No. 09/874,475

Cells

Cell	Receptor
5.25	CXCR4, CD4, CCR5 (not expressed well) BONZO
5.25.Luc4.M7	CD4, CCR5, BONZO
HOS.CD4.CCR5	CD4, CCR5
HOS.CD4.CXCR4	CD4, CXCR4
HOS.CD4	CD4, low level expression of CCR5 and CXCR4
HOS HT4 R5 GFP wt	CD4, CXCR4, CCR5
HOS.CD4.CCR5.GFP.M7#6*CD4, CXCR4, CCR5	CD4, CXCR4, CCR5
P4.CCR5	CD4, CXCR4, CCR5
U87.CD4	CD4
U87.CD4 R5	CD4, CCR5
U87.CD4 X4	CD4, CXCR4
MT2	CD4, CXCR4
MT4	CD4, CXCR4
PM1	CD4, CXCR4, CCR5
CEM NKr CCR5	CD4, CXCR4, CCR5

 Table 2
 Representative viruses and reagents

		The second secon
Vi-auses	Envelope	Source
89.6, SF2	R5-X4/SI/B	ARRRP ^B
92BR014,92US076	R5-X4/SI/B	ARRRP
JR-CSF, 91US005	R5/NSI/B	ARRRP
91US054	SI/B	ARRRP
NL43, MN, ELI	X4/B	ARRRP
92HT599	X4	ARRRP
92UG031	R5/NSI/A	ARRRP(IN-HOUSE)
92TH014, 92TH026	R5/NSI/B	ARRRP (IN-HOUSE)
92BR025, 93MW959	R5/SI/C	ARRRP(IN-HOUSE)
92UG035	R5/NSI/D	ARRRP(IN-HOUSE)
92TH022, 92TH023	R5/NSI/E	ARRRP(IN-HOUSE)
93BR020	R5-X4/SI/F	ARRRP(IN-HOUSE)
Antibodies	Epitope // /	SOURCE
Mabs 2F5, 1577	gp41 TM	ARRRP
Mabs IG1b12, 2G12, 17b, 48D	gp120 SU	ARRRP THE ARRANGE
Neutralization sera #2, HIV-	Polyclonal	ARRRP
IG		
Entry inhibitors	Target	Source
CD4-IG	gp120 SU	Genentech
CD4-TGG2	gp120 SU	Adarc
SCD4	Sigma	Frogenics-
T20 (DP178)	gp41 TM	Trimeris
Rantes, MIP1a/b	CCR5	SIGMA/ARRRP
SDF1a/b	CXCR4	SIGMA/ARRRP
AMD 3100	CXCR4	AnorMed
Dextran sulfate, Heparin	Non-specific _	Sigma

^{*}R5 (CCR5 co-receptor), X4 (CXCR4 co-receptor)

SI (syncytium inducing), NSI (non-syncytium inducing), A,B,C,D,E,F (envelope clade designation)

bAIDS Research and Reference Reagent Program

Table 3

Primers Tested for the Amplification of HIV Envelope RT PRIMERS 5'-GGA GCA TTT ACA AGC AGC AAC ACA GC-3' RT env_N3 5' -TTC CAG TCA VAC CTC AGG TAC-3' RT env 9720 5'-AGA CCA ATG ACT TAY AAG G-3' RT env 9740 5' PCR PRIMERS 5'-GGG CTC GAG ACC GGT CAG TGG CAA T+3A GAG TGA AG- 3' 5'env 5'env_Xho/Pin 5'-GGG CTC GAG ACC GGT GAG CAG AAG ACA GTG GCA ATG A-3' 5'env_START 5'-GGG CTC GAG ACC GGT GAG CAG AAG ACA GTG GCA ATG -3' 3' PCR PRIMERS 5' -GGG TCT AGA ACG CGT TGC CAC CCA TCT TAT AGC AA- 3' 3' env 3'env_Xba/Miu 5'-GGG TCT AGA ACG CGT CCA CTT GCC ACC CAT BTT ATA GC-3' 3'env_STOP 5'-GGG TCT AGA ACG CGT CCA CTT GCC ACC CAT BTT A-3' 3' delta CT 5'-GAT GGT CTA AGA CGC TGT TCA A'A TCC CTG CCT AAC TC- 3'

All Experiments are located in Virologic Book number 0188

Table 4 (Panel 1)

Anti-HIV Drugs Drug/Compound Manufacturer Trademark Generic Name) (RTalfihibitors (NRTI nucleotide analog Glaxo/Wellcome Zidovudine Retrovir AZT, ZDV Glaxo/Wellcome 3TC Lamivudine **Epivir** Combivir Glaxo/Wellcome AZT + 3TC Bristol-Myers/Squibb Stavudine Zerit d4T Bristol-Myers/Squibb Videx Didanosine ddl Hoffman La Roche Zalcitabine Hivid ddC Glaxo/Wellcome Abacavir Ziagen 1592U89 Glaxo/Wellcome AZT + 3TC + 1592U89 Trizivir Triangle Pharmaceuticals Emtricitabine (-)FTC (5-fluoro-3TC; Corviracil) (-)FTC + (+)FTC (50:50) QuadPharma Racimir Triangle Pharmaceuticals DAPD (DXG active) Amdoxovir Medimmune Oncology (US Bioscience) F-ddA (2-fluoro-ddA) Lodenosine BioChem Pharma, Inc.: BCH-10652, dOTC (2-deoxy-3-oxa-4-thiocytidine) Triangle Pharmaceuticals (Schinazi) D-d4FC RT-Inhibitors (NIRT) nucleotide analo Gilead Sciences bis-POC PMPA (GS-4331) Tenofovir Gilead Sciences Adefovir dipivoxil bis-POM PMEA (GS-840) RT/Inhibitors (NNRTI) non-nucleoside Boehringer/Ingleheim (Roxanne) Viramune BI-RG-587 Nevirapine Pharmacia & Upjohn Rescriptor Delavirdine BHAP PNU-90152T **Dupont Pharmaceuticals (Avid)** Sustiva DMP 266 (L-743,726) Efavirenz Triangle/Mitsubishi Kasei MKC442 (Coactinon) **Emivirine** Agouron Pharmaceuticals AG-1549 (S1153) (on hold) Capravirine Pharmacia & Upjohn ... PNU-142721 **DuPont Pharmaceuticals** DPC-961, -963, -083, -08? Samjin Pharmaceuticals Also entry inhibitor? SJ-3366 .Upjohn **BHAP PNU-87201** Atevirdine Glaxo/Wellcome (Hoechst Bayer) (2nd gen. HBY 097) GW420867X (quinoxaline) Tibotec TMC 120 (R147681) Tibotec TMC 125 (R165335) Janssen Pharmaceuticals tivirapine R86183 Sarawak Medichem Pharmaceuticals Calanolide A Protease Inhibitors (PRI) Hoffman-La Roche Saquinavir-(hgc) Invirase Ro 31-8959 **Fortivase** Saquinavir-(sgc) Merck Research Laboratories Crixivan MK-639 (L-735,524) Indinavir **Abbott Laboratories** Norvir Ritonavir ABT-538 (A-84538) **Agouron Pharmaceuticals** Viracept Nelfinavir AG1343 Glaxo-Wellcome/Vertex Amprenavir Agenerase 141W94 (VX-478) **Abbott Laboratories** Lopinavir/ritonavir Kaletra ABT-378/r Bristol-Myers-Squibb BMS 232,632 (aza-peptide) Pharmacia & Upjohn Tipranavir FNU-140690 Triangle/Avid (ph I/II) Mozenavir DMP 450 (cyclic urea) Tibotec TMC 126 (Erickson's compound) Glaxo/Wellcome/Vertex amprenavir pro-drug G/W433908 (VX-175) Merck L756,423 (on hold) Parke Davis (Boehringer-Ingleheim) PD-178390 (dihydropyrone) Roche ? new candidate **DuPont Pharmaceuticals** DPC 681 and 684 Agouron Pharmaceuticals AG-1776 (JE-2147 = KNI-764)

Envelope/Receptor inhibitors 11 Alestical for a least trace of a consequence of the consequence Trimeris Pharmaceuticals Pentafuside T-20 (gp41) Trimeris Pharmaceuticals T-1249 (gp41) Schering-Plough D-peptide inhibitor (gp41) small mol. SCH-C AnorMED (bicyclam) AMD-3100 (CXCR4) AnorMED AME-3664 (CXCR4) (macrocyclam) U. PA ALX40-4C (CXCR4) Fuji Pharmaceuticals FP21399 **Progenics Pharmaceuticals** CD4lgG2 PRO 542 (gp120) **Progenics Pharmaceuticals** PRO-140 (CCR5) MAb CCR5 (peptide, 18-mer) T-22 (CXCR4) Met-SDF-1 (CXCR4) Takeda TAK 779 (CCR5 antagonist) Gryphon Sciences

AOP-Rantes (CCR5)

Table 4 (Panel 2)

Rantes 9-68 (CCR5)		T T T T T T T T T T T T T T T T T T T
CCR5 antagonists	4-(piperidin-1-yl) butane class	Merck
α-Immunokine-NNS03 (CCR5, CXCR4	α-cobratoxin	PhyloMed Corp.
Integrase Inhibitors A		
AR-177	Zintevir	Aronex Pharmaceuticals
Diketo acids		Merck Research Laboratories
Nucleocapsid Inhibitors		
RB 2121	cyclic peptide p7 mimic	(see PNAS 96:4886-4891 (1999))
CI-1012		Achelion Pharmaceuticals
RNase Hinhibitor	NAMES OF TAXABLE	
SP1093V (BBNH Fe+3 derivative)		 (Pamiak)

Table 4 (Panel 3)

Generic Name (abbreviation)	Bran
zidovudine, AZT	Retro
didanosine, ddl	Vide
zalcitabine, ddC	Hivid
stavudine, d4T	Zerit
lamivudine, 3TC	Epivi
saquinavir, SQV, hgc	Invira
saquinavir, SQV, sgc	Forto
ritonavir, RTV	Norv
indinavir, IDV	Crixi
nevirapine, NVP	Virar
nelfinavir, NFV	Virac
delavirdine, DLV	Resc
ZDV+3TC	Com
efavirenz, EFV	Sust
abacavir, ABC	Ziag
amprenavir	Ager
lopinavir/ritonavir	Kale
ZDV+3TC+ABC	Trizi

FDA Approval Firm nd Name **Date** March 87 ovir Glaxo Wellcome October 91 **Bristol Myers-Squibb** X June 92 Hoffman-La Roche **Bristol Myers-Squibb** June 94 November 95 Glaxo Wellcome /ir Hoffman-La Roche December 95 ase November 97 Hoffman-La Roche ovase ; March 96 **Abbott Laboratories** /ir · March 96 Merck & Co., Inc. ivan June 96 Boenringer Ingelheim mune 📑 March 97 Agouron Pharmaceuticals cept Pharmacia & Upjohn April 97 criptor-September 97 Glaxo Wellcome nbivir DuPont Pharmaceuticals September 98 liva February 99 Glaxo Wellcome en April 99 Glaxo Wellcome nerase ' September 2000 Abbott etra -November 2000 GlaxoSmithKline vir